

Claims

1. A quenched and tempered steel wire with superior cold forging characteristics, comprising 0.1-0.5 wt% of C, 1.0 wt% or less of Si, 0.20-2.5 wt% of Mn, 0.03 wt% or less of P, and 0.03 wt% or less of S, with the balance being Fe and inevitable impurities, which has tensile strength in a range of 700-1300 Mpa and percent spheroidization of carbides not less than 30%.
5
2. The quenched and tempered steel wire as defined in claim 1, further comprising at least one component selected from among 0.05-2.0 wt% of Cr, 0.05-1.5 wt% of Mo and 0.0003-0.0050 wt% of B..
- 10 3. A quenched and tempered steel wire with superior cold forging characteristics, comprising the steel wire of claim 1 or 2 stretched.